



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ722	Date of Submission:	4/28/05
Lexicon Contract Name:	DNA377	Mutation Type:	X Standard Knock out
LexVision Name:	MEM766N1		☐ Conditional
Reference accessions:	NM_001005421.2	Is this gene X-linked?	no

Required Materials: X pKOS clone DNA(s) __pKOS-56_____
X Target Vector DNA __pKOS-56TV_____
X Targeted ES Cell DNA __1E7_____
X Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' Internal</u>	<u>3' External</u>
Name of Probe:	23/24	29/30
Restriction Enzyme for Genomic Digest:	Bgl II	Acc65I
Predicted Wild-type Band (kb):	5.3	9.1
Predicted Mutant Band (kb):	9.6	13.4
Probe Size (bp):	352	222

PCR Strategies:

For standard knockouts, give wildtype and mutant-specific strategies

For conditionals, give 5' loxP and cre-excision strategies

Wild type-specific (absent in targeted allele)		Mutation-specific product (absent in wt)	
5' Primer Name:	3	5' Primer Name:	12
3' Primer Name:	4	3' Primer Name:	IRES-GT-Ext
Predicted Wild-type Band (bp):	328	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	184

5' loxP strategy		Distinguish Cre-excised and wt	
5' Primer Name:		5' Primer Name:	
3' Primer Name:		3' Primer Name:	
Predicted Wild-type Band (bp):		Predicted Wild-type Band (bp):	
Predicted mutant band (bp)		Predicted mutant band (bp)	

Primer sequences:**Southern probes**

23 5' – AGGAAATGGCCAGTGCTAGATG
 24 5' – GTAGAACTAAGAATTGCGCTGT
 29 5' – CCCAAGTCTCGATGTGTA
 30 5' – CAGGCAAAGCTTAGACA

PCR Genotyping

3 5' – ATACCCGTTGGTTTGTGAGATA
 4 5' – TGAGAACAGAGTTCCAGGCAAG
 12 5' – CAGAATCTGGCTCACATTGG
 IRESGTExt 5' – GCTAGACTAGTCTAGCTAGAGCGG

[illegible]

TGCAC TGTAGT TTAATAAA ACTTCTTTG CATCTTGTGGCTAC CTTTTTCGTGTCTAACTATGTTAAAAATGAGAAGTACCTTGTGCAGGGGATTGTTGTGGTTTTCAGCATCTGAGAAAACCTGTCTGAGCTGCACCACAGCAAGATCCTGCATAGATCCAGTGGTGTGCTGGAACACAGCTCACATAGCAGAAGCTGATGAGTGCATTTCTGAGAAATTTTGTGAACCCAGTGGCAAACTGGTGGGCTAGAAATACACCGCACTGGGAATATTTATACAGGGCCCCGTGCAGCATAGTCTCTGGCCAGAAAACATTCAACAGTTTTCCAGGACAGGACAAATTTCAAAGATGAGCATTACCCAGGCTTTGTTCTACTGGGTCAATCCATAGAAACAAGGATGGATGTGTATGTATAAGAACGCTTAGTCTGAAGGGATGATTGAAAAAGAGAAGGATCTGGCATTACAGGATGGCCTGAGTTGTTCCCCAAGATGGCC AAGCCACTCAAAGGGTCTGCTAGGAGAACAGCTTGCTCTCTGTATGATGGCAACCCTCACAGTCGGAGGAAACCTATACAGCAACATGGTGGGCGGAGCACTGGCCAGGGGAAATCTCTGGAAGCAGCTAAAGGTGATCAATCAGCCAGGCTGCATCTGTACAGTAAGAGAAGAAGAAGTGAAACTTCTGTGTCCGAAACACAGCCTCAAGTTTCTATTCTCCAAGTAATTGTGCTTTATTTACATAAAGCTGATTTCTCAGCAAAATGCCTCTTGCCAGTCAAGATTTTGTGTTGTTTGTGTTGTTTGTATAGATAAAGGGTTCACAGTGTAGTCCAGGCTGGCTCCTCTGCCTGAGCCTTCTGGGTGCTGAGATGTCCAGCATACACCATA GGCCTGGCTGATTTGAGATCTTGCTTGCAGAGTTTGTAATCCAGAAGGGAGGTGACATCTGCAGGGACCTGAGATATGAGGCTCACCTGAGTGAGCTGCAAGTCTTTCTCTAGAAAAAAACTATACATACTGCAAGTAGGACAACCTGTGTCAACCCTCCACGGTTCCAGGACATCGCAGAAGAGGAGGCAGAA TGTCAAAGCCAGAAGACAGGGATGCCGTGCTTCTGGATAGGACATGGCCCTGGTAATCATGTGCCACACAGCAGCTGTGGCTACCTGCAGAAGACTTATATGTCACATACAGCCACAGCATAGTGCACACACACAAATGAACAATGCATAGACACACACTGGGACACACACACACTGCAGGCACATAGGCACACTCAAGCTCACATACATACCCACACAGGCACACACATAGGCAAAGATGTACACATGTACACAGGCATCACCCCCACATACACATCAGC GCACATGCATGTACATACACCACACAGTAGCATGCCCACACACTGTACACACAGGCACACACATGTATACATGCATGCATGCATATACACAGGCACACATAGGTGTCACATGTCACCCCTCTATGTCACAGACACCACACACACACACACACACACAAGCAAGCATAGGACTAGCTGGGAAGAGGACTCAGCA GGGATGAAC TGGGAATAAAGAGGGTGATGAGGGTGAATATGACCATCACAATGGAATACCATTGTAAAAATTGAAAAAAGAAACCCATAATTT AAAAGTAATGAAATATAAATGCAAATTTGACAGTGCAGCTAGATGATTGAATGGAGAGCCTTGATTGGGAGGTTTCTGTTTCTGTTTCCGACGCCACC ACAGAAGGCATGCACATCTGTGTTGCTTTGAGCCTGATCTCCTGTGCTGGCAGAAGTCTCTCAGTTGGTGTGGGCGATGCTGTGGCAGGAGATCGCGGT GGACTGTTCTTCTGGGCACTGTCTCTTGGGTAAGCAGTGACTTTGTGTGCTGTGTAGCCGTTCTTTGAGCTGTTCTGAGGAGATGGCCAGTTGTCATTCAAAGAGGGTGGTGAGATGGGCATTTGCTGTATGATGAGGAGGCCGTGTCATGGAATTTCCCGGCTCTCTCAGGTGGGCTGCTGTGAGGTAGACCAGTAG GTGACGCTTTAGTGCTGTAGTGCTACTTTGTGTAAGTTCTCAGAGAAAGAAGTAAGCCTTGCTGTGGTAAGCAGCGGAGTGGGTTGTTTGAAGGTC TAGCTTTCTCTGTTGGCGATGGCGTTGAGACAGAATCGTGACTGCTTTTGTAGCTCATGGCAGGACTCCTACCTCACTGTTTTCTCCTGATCTGGATACGTC

[illegible]

[illegible]

Selection Cassette:

[illegible]

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